

IMAGE LINKED WITH IMAGE PROCESSING STATION

ABSTRACT

5 A digital video camera is coupled with an image processing station by a tether that has a bandwidth. The processing station has a memory with a program that executes instructions. When application software on the station requests a driver on the station to operate the camera at a specific frame rate, the program determines whether the requested frame rate is higher than permitted by the tether bandwidth. If that is so, the program
10 computes a maximum permitted frame rate and an integration time of the pixels of the camera. The integration time causes the camera to produce output video frames at a rate commensurate with the computed bandwidth constrained frame rate, instead of the requested frame rate. The program then adjusts the gain accordingly.

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P A T E N T A P P L I C A T I O N